

## PRELIMINARY ASSESSMENT

DRAFT

NOV 06 1990

CERCLIS IDENTIFICATION NUMBER

STATE TX

SITE NUMBER  
TXD988051652

## SITE LOCATION

SITE NAME: Legal, common or descriptive name of site

Mobile WASTE Controls, Inc. TXD988051652

STREET ADDRESS, ROUTE or SPECIFIC LOCATION IDENTIFIER

10000 MINNESOTA STREET

CITY

HOUSTON

STATE TX

ZIP CODE

TELEPHONE

COORDINATES: LATITUDE and LONGITUDE

29°37'19"N 095°13'59"W

TOWNSHIP, RANGE, and SECTION

## OWNER/OPERATOR IDENTIFICATION

OWNER

FDIC/NCNB FINANCIAL RESOURCE MGMT.

OPERATOR

Mobile WASTE Controls, INC. \*\*

OWNER ADDRESS

P.O. Box 2518

OPERATOR ADDRESS

3312 1/2 LAURA KOPPE

CITY

HOUSTON

CITY

HOUSTON

STATE TX

ZIP CODE

77252-2518

TELEPHONE

713 652-6615

STATE TX

ZIP CODE

77016

TELEPHONE

( )

\*\* ONE of SEVERAL OPERATORS OVER THE FACILITIES LITE TIME.

## TYPE OF OWNERSHIP

- ☒ PRIVATE  
☐ FEDERAL: Agency name \_\_\_\_\_  
☐ STATE  
☐ COUNTY  
☐ MUNICIPAL  
☐ OTHER: \_\_\_\_\_  
☐ NOT SPECIFIED

## OWNER/OPERATOR NOTIFICATION ON FILE

- ☐ NONE  
☒ CERCLA 103 C. UNCONTROLLED WASTE SITE  
DATE: 09/01/91  
☐ RCRA 3001  
DATE: \_\_\_\_\_

## SITE STATUS

- ☐ ACTIVE  
☒ INACTIVE  
☐ UNKNOWN

## YEARS OF OPERATION

BEGINNING YEAR: PRE 1969

ENDING YEAR: 1974

☐ UNKNOWN

## APPROXIMATE SIZE OF SITE

20 ACRES

SUPERFUND FILE

DEC 07 1992

## SITE EVALUATION

AGENCY / ORGANIZATION

TEXAS WATER COMMISSION

REORGANIZED

INVESTIGATOR

ALLAN M. SEILS

CONTACT

STENNIE A. MEADOURS

ADDRESS

P.O. Box 13087, CAPITOL STATION, AUSTIN, TEXAS 78711-3087

TELEPHONE

(512) 463-7785

DATE

DECEMBER 19, 1991

9351639



**DRAFT**

NOV 06 1990

Site Name: *Mobile Waste Controls Inc. 2*  
Date: *December 19, 1991*

## GENERAL INFORMATION

### Site Description and Operational History:

In the late 1960s, the rural area located half a mile west of the intersection of Alameda-Genoa Road and IH 45 was an active sand quarry. In August 1967, the site was being operated by Union Sand and Rental Company and Carson Gibson. A review of aerial photography confirmed sand quarrying had begun as early as October 31, 1962 (Attachment 6). A series of deep pits were excavated: two large (1,000 feet diameter); two small (300 feet diameter); and one shallow. Area precipitation and ground water accumulated in these pits to form a series of lakes (Ref. 18). Texas Water Development Board examination of the pits on August 11, 1967 reported the water table had been penetrated in the pits; one pit had received a large amount of refuse; chemical analyses of inorganic constituents in the pits and area water wells gave similar results; and regional ground water flow is to the southeast. Local residents reported it was not unusual for oil field and chemical plant wastes to be dumped in the pits near their homes (Ref. 18 Document 25).

From 1969 through 1981, the property was owned by Realty Reclamation, Inc. and operated as an industrial and commercial trash landfill by Wallace Waste Control, Metropolitan Waste Conversion, National Disposal Contractors, and Mobile Waste Controls, Incorporated. One of the unlined pits (25 acres, Attachments 7 and 8) had been filled with a variety of industrial and commercial wastes and capped by 1974. City of Houston staff had documented several operational violations at the site including: 1) receipt of industrial chemicals, municipal, and putrescible wastes; 2) several fires; and 3) odor problems. The site was closed by a District Court permanent injunction in 1974 (Ref. 18 Document 45).

In 1982, Levering and Reid, Inc. created Windmill Lakes Subdivision and constructed three apartment complexes adjacent to the site and among the lakes formed by accumulated precipitation and ground water in the remaining sand pits. Windmill Lakes Blvd. and a boat storage facility were constructed over the old landfill site (Ref. 18 Documents 64-67 and Attachment 5). The landfill cap was disturbed by surveying and construction resulting in exposed material. Groundwater monitoring sample results from 1982 through 1983 indicated elevated concentrations of several complex organic compounds (Ref. 18 Documents 84-87 and Attachments 7 and 8). Site visits of April 29 and October 9, 1991 reported the site is a maintained grass field transect by Windmill Lakes Blvd. with a boat storage area located on the western edge of the site (Attachment 5 Photographs 1-11).

### Probable Contaminants of Concern:

(Previous investigations; analytical data)

Benzene, Toluene, Ethylbenzene, 2-Nitropropane, Chlorobenzene, Cyclohexane, Xylene, Aniline, Napthalene, 1,4 Dichlorobenzene, 1,1' Diphenylhydrazine, N-Nitrosodiphenyl Amine, 2-Methyl phenol, 2,4 Dimethyl phenol, 2,3 Dimethyl phenol, Diethyl Phtahlate, Styrene, and concentrations of several complex organic compounds.

An unknown amount of industrial chemicals were disposed of at this site from pre-1969 to 1974 (Ref. 18). Contaminants of concern were identified from the City of Houston and REI ground water sample results (Ref. 18 Documents 84-87 and Attachments 7 and 8). Other wastes known to be disposed at this site were wood, paper, plastics, rubber, metal, municipal garbage, neoprene, styrofoam, urethane, PVC pellets, plastic resins, asbestos; and asphalt (Ref. 18 Document 36).

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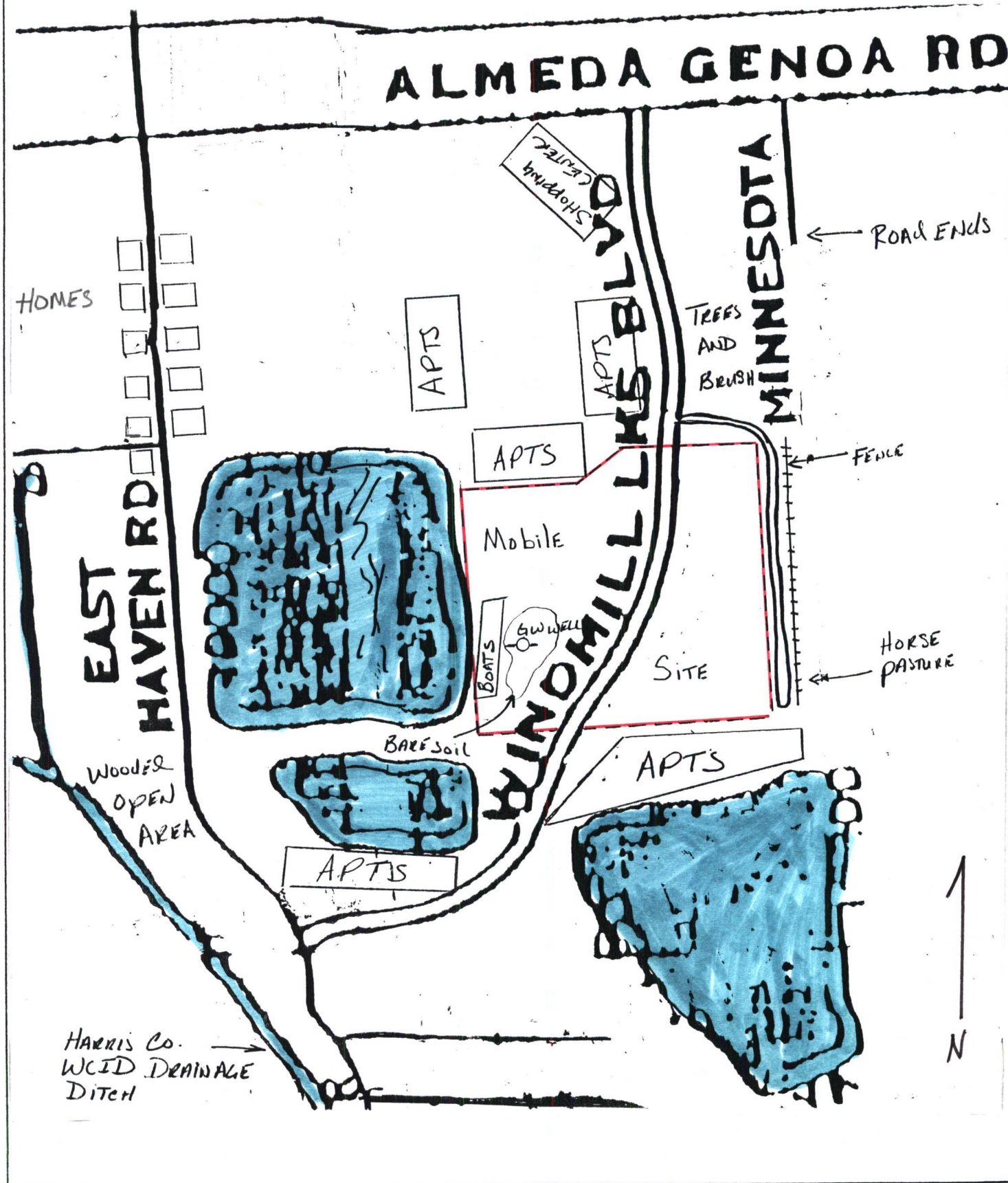
NOV 06 1990

Site Name: Mobile Waste Controls, Inc. 3  
Date: DECEMBER 19, 1991

GENERAL INFORMATION (continued)

Site Sketch:

(Show all pertinent features; indicate sources and closest targets)



# DRAFT

Site Name: Mobile Waste Controls Inc. 4  
Date: December 19, 1991

NOV 06 1990

## GENERAL INFORMATION (continued)

### Source Descriptions:

THE MOBILE WASTE CONTROLS SITE WAS AN OLD SAND EXCAVATION PIT COVERING APPROXIMATELY 20 ACRES WITH THREE DEEP DEPRESSIONS RANGING FROM 13-20 FT. ONE DEPRESSION HAD BEEN EXCAVATED BELOW GROUND WATER LEVEL. THE UNLINED SITE WAS FILLED WITH INDUSTRIAL AND MUNICIPAL WASTE TO AN AVERAGE DEPTH OF 20 FT.

### Waste Characteristics (WC) Calculations:

(See PA Table 1, page 5)

UNLINED SAND PIT RECEIVED INDUSTRIAL AND MUNICIPAL WASTE. THE SITE WASTE COMPLETED TO AN AVERAGE DEPTH OF 20 FT. SPECIFIC WASTE AND VOLUME RECEIVED AT LANDFILL IS UNKNOWN.

~25 ACRE  
LANDFILL

<u>TIER</u>	<u>SOURCE TYPE</u>	<u>SINGLE SOURCE</u>	<u>CONVERSION</u>
VOLUME disposed	Landfill	~25 ACRES @ ~13 FT. DEPTH	585,000 yd <sup>3</sup>
AREA	Landfill	~25 ACRES	~25 ACRES

∴ WC = MEDIUM

WC =

MEDIUM

## GROUND WATER PATHWAY CRITERIA LIST

 Site Name: *Mobile Waste Controls*  
 Date: *DECEMBER 19, 1991*

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the well that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

GROUND WATER PATHWAY			
SUSPECTED RELEASE			PRIMARY TARGETS
Y :	N o	U n k n o w n	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are sources poorly contained?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is waste quantity particularly large?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is precipitation heavy and infiltration rate high?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the site located in an area of karst terrain?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the subsurface highly permeable or conductive?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is drinking water drawn from a shallow aquifer?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are suspected contaminants highly mobile in ground water?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does any circumstantial evidence of ground water or drinking water contamination exist?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other criteria? _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SUSPECTED RELEASE?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is any drinking-water well nearby?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is any nearby drinking-water well closed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has foul-tasting or foul-smelling water been reported by any nearby drinking-water users?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Do any nearby wells have a large drawdown or high production rate?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are drinking-water wells located between the site and other wells that are suspected to be exposed to hazardous substances?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does any circumstantial evidence of ground water or drinking water contamination exist?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does any drinking-water well warrant sampling?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other criteria? <u>AREA hydrology</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PRIMARY TARGET(S) IDENTIFIED?

Summarize the rationale for suspected release (attach an additional page if necessary):

CONTAMINANTS WERE FOUND IN 3 MONITORING WELLS ALONG THE WESTERN SITE BOUNDARY AND IN 1 WELL IN THE CENTER OF THE SITE. IN THE SAME (PERMEABLE) SOILS WHICH FORM A SHALLOW WATER ZONE ABOVE THE UPPER CLAY (REF. 18 DOCUMENTS 54-57 AND ATTACHMENTS 7 AND 8).

Summarize the rationale for Primary Targets (attach an additional page if necessary):

# DRAFT

NOV 06 1990

## GROUND WATER PATHWAY

Site Name: MOBILE WASTE CONTROLS, INC. 8  
Date: DECEMBER 19, 1991

Pathway Characteristics	
Do you suspect a release .	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is the site located in karst terrain?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth to aquifer:	<u>8</u> ft
Distance to the nearest drinking-water well:	<u>&lt; 5,280</u> ft

### LIKELIHOOD OF RELEASE

	A Suspected Release	B No Suspected Release	References
1. SUSPECTED RELEASE: If you <u>suspect</u> a release to ground water.	YES		ATTACHMENTS 7 & 8 AND REF. 18
2. NO SUSPECTED RELEASE: If you do not suspect a release to ground water.			

### TARGETS

3. PRIMARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you suspect have been exposed to hazardous substances from the site. . . . . people x 10 =			
4. SECONDARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you do NOT suspect have been exposed to hazardous substances from the site.  Are any wells part of a blended system? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, attach a page to show apportionment calculations.	602		1, 11, 15
5. NEAREST WELL:	HIGH		11
6. WELLHEAD PROTECTION AREA (WHPA):	HIGH		12
7. RESOURCES:			

### WASTE CHARACTERISTICS

8. A. If you have identified any Primary Targets for ground water,  do not evaluate part B of this factor.	MED	
B. If you have NOT identified any Primary Targets for ground water,		

GROUND WATER PATHWAY

HIGH

Site Name: Mobile Waste Controls  
Date: DECEMBER 19, 1991

## SECONDARY GROUND WATER TARGET POPULATIONS

### Non-Karst Aquifers

<i>Distance from Site</i>	<i>Population</i>	<i>Nearest Well</i>
0 to ¼ mile	<u>7</u>	✓
> ¼ to ½ mile	<u>2</u>	
> ½ to 1 mile	<u>1,131</u>	
> 1 to 2 miles	<u>10,003</u>	
> 2 to 3 miles	<u>17,092</u>	
> 3 to 4 miles	<u>2,497</u>	

### Karst Aquifers

<i>Distance from Site</i>	<i>Population</i>	<i>Nearest Well</i>
0 to ¼ mile	_____	
> ¼ to ½ mile	_____	
> ½ to 1 mile	_____	
> 1 to 2 miles	_____	
> 2 to 3 miles	_____	
> 3 to 4 miles	_____	



DRAFT

Site Name: Mobile Waste Controls Inc. 10  
Date: DECEMBER 19, 1991

NOV 08 1990

SURFACE WATER PATHWAY  
MIGRATION ROUTE SKETCH

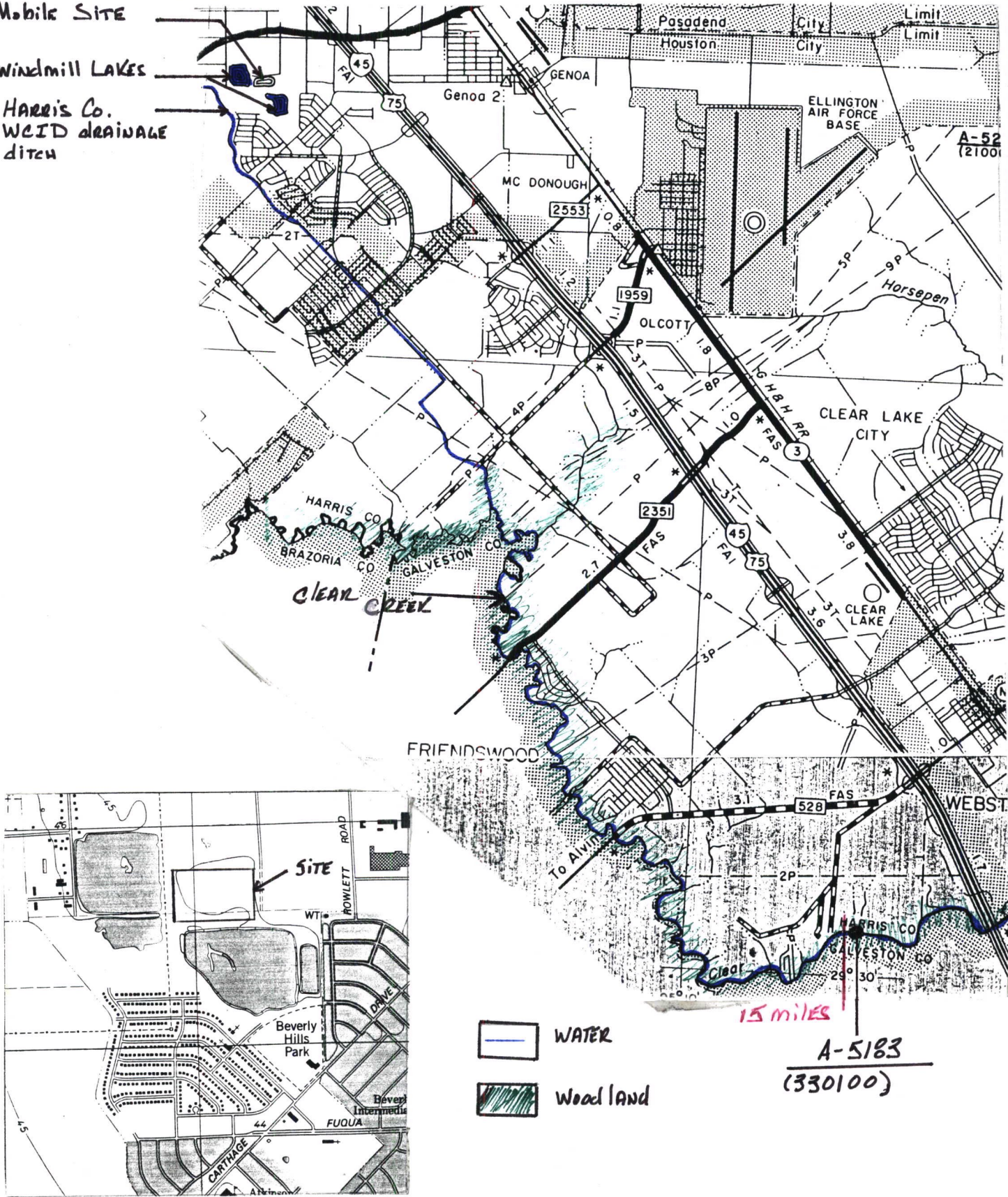
Provide a Sketch of the Surface Water Migration Route:

(include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments)

Mobile Site

Windmill Lakes

Harris Co.  
WEID drainage  
ditch





## SURFACE WATER PATHWAY CRITERIA LIST

 Site Name: *Mobile Waste Controls*  
 Date: *November 15, 1991*

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

SURFACE WATER PATHWAY					
SUSPECTED RELEASE			PRIMARY TARGETS		
Y	N	UNKNOWN	Y	N	UNKNOWN
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is surface water nearby?			Is any target nearby? If yes:		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Drinking-water intake		
Is waste quantity particularly large?			<input checked="" type="checkbox"/> Fishery		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Sensitive environment		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is precipitation heavy or infiltration rate low?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are sources poorly contained or prone to runoff or flooding?			Has an intake, fishery, or recreational area been closed?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a runoff route well defined (e.g., ditch or channel leading to surface water)?			Is there any circumstantial evidence of surface water contamination at or downstream of a target?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is vegetation stressed along the probable runoff path?			Does any target warrant sampling? If yes:		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Drinking-water intake		
Are suspected contaminants highly persistent in surface water?			<input checked="" type="checkbox"/> Fishery		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Sensitive environment		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other criteria? _____		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are sediments/water unnaturally discolored?		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is wildlife unnaturally absent?		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has deposition of waste into surface water been observed?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is ground water discharge to surface water likely?			PRIMARY INTAKE(S) IDENTIFIED?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRIMARY FISHERY IDENTIFIED?		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other criteria? _____		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SUSPECTED RELEASE?		

Summarize the rationale for suspected release (attach an additional page if necessary):

*CONTAMINATED GROUND WATER FLOWS TOWARDS THE LARGE LAKE ADJACENT TO THE SITE. THE SITE HAS A HISTORY OF EXPOSED SURFACE MATERIAL AND STRESSED VEGETATION AREAS WITH STRONG CHEMICAL ODORS SUBJECT TO RUNOFF TOWARDS SURFACE LAKES AND A HARRIS COUNTY WCID DRAINAGE DITCH (REF. 18).*

Summarize the rationale for Primary Targets (attach an additional page if necessary):

NOV 06 1990

Site Name: Mobil WASTE Controls JUL 72  
Date: DECEMBER 19, 1991

**SURFACE WATER PATHWAY  
LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT.**

Pathway Characteristics	
Do you suspect a release	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Distance to surface water:	<u>300</u> ft
Flood Frequency:	<u>&gt; 500</u> yrs
What is the downstream distance to the nearest drinking-water intake?	<u>NA</u> miles
nearest fishery? <u>      </u> miles	nearest sensitive environment? <u>&lt; 0.1</u> miles

### LIKELIHOOD OF RELEASE

1. **SUSPECTED RELEASE:** If you suspect a release to surface water use only column A for this pathway.
2. **NO SUSPECTED RELEASE:** If you do not suspect a release to surface water, Use only column B for this pathway.

<i>Floodplain</i>	
Site in annual or 10-yr floodplain	
Site in 100-yr floodplain	
Site in 500-yr floodplain	
Site outside 500-yr floodplain	

A	B	
Suspected Release	No Suspected Release	References
YES		

## DRINKING WATER THREAT TARGETS

3. Determine the water body types, flows (if applicable), and number of people served by all drinking-water intakes within the 15-mile target distance limit. If there are no drinking-water intakes within the target distance limit, . . .

**proceed to page 14.**

Intake Name	Water Body Type	Flow	People Served
		cfs	
		cfs	
		cfs	

4. **PRIMARY TARGET POPULATION:** If you suspect any drinking-water intake listed above has been exposed to hazardous substances from the site \_\_\_\_\_ list the intake name(s) and calculate the factor score based on the number of people served.

0 people x 10 =

5. **SECONDARY TARGET POPULATION:** Determine the Secondary Target Population based on the populations using drinking-water from intakes that you do NOT suspect have been exposed to hazardous substances from the site.

Are any intakes part of a blended system? Yes ☐ No ☒  
If yes, attach a page to show apportionment calculations.

6. NEAREST INTAKE: If you have identified any Primary Targets for the drinking water \_\_\_\_\_ If no drinking-water intake exists within the 15-mile target distance limit \_\_\_\_\_

- ## 7. RESOURCES:

0		10
0		10
0		

DRAFT

NOV 06 1991

Site Name: Mobile Waste  
Date: December 19, 1991

SECONDARY SURFACE WATER TARGET POPULATIONS

Surface Water Body Flow Characteristics (see PA Table 4)	Population	Nearest Intake
< 10 cfs	<u>0</u>	0
10 to 100 cfs	<u>0</u>	
> 100 to 1,000 cfs	<u>0</u>	
> 1,000 to 10,000 cfs	<u>0</u>	
> 10,000 cfs or Great Lakes	<u>0</u>	
3-mile Mixing Zone	<u>      </u>	

DRAFT

NOV 06 1990

Site Name: Mobile Waste Controls, Inc. 14  
Date: DECEMBER 19, 1991SURFACE WATER PATHWAY (continued)  
HUMAN FOOD CHAIN THREAT

	A	B	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Reference
Enter the Surface Water Likelihood of Release	YES		

## HUMAN FOOD CHAIN THREAT TARGETS

8. Determine the water body types and flows (if applicable) for all fisheries within the 15-mile target distance limit. If there are no fisheries within the target distance limit, proceed to page 15.

Fishery Name	Water Body Type	Flow
WINDMILL LAKES	SMALL LAKES	N/A cfs
CLEAR CREEK	SM/MOD. STREAM	36 cfs
		cfs
		cfs
		cfs

9. PRIMARY FISHERIES: If you suspect any fishery listed above has been exposed to hazardous substances from the site (see Surface Water Criteria List, page 11), List the Primary Fisheries:

WINDMILL LAKES

HIGH

10. SECONDARY FISHERIES: If you have not identified any Primary Fisheries, assign a Secondary Fisheries from the table below using the LOWEST flow at any fishery within the 15-mile target distance limit.

Lowest Flow	Secondary Fisheries Score
< 10 cfs	
10 to 100 cfs	
> 100 cfs, coastal tidal waters, oceans, or Great Lakes	

N/A

15

18

15

18



DRAFT

NOV 06 1990

Site Name: Mobile WASTE CONTROLS, INC. 7-  
Date: DECEMBER 19, 1991SURFACE WATER PATHWAY (continued)  
ENVIRONMENTAL THREAT

## LIKELIHOOD OF RELEASE

Enter the Surface Water Likelihood of Release

LR =

A	B
Suspected Release	No Suspected Release
YES	

Reference

## ENVIRONMENTAL THREAT TARGETS

11. Determine the water body types and flows (if applicable) for all surface water sensitive environments within the 15-mile target distance limit (see PA Tables 4 and 5). If there are no sensitive environments within the 15-mile target distance limit, proceed to page 17.

Environment Name	Water Body Type	Flow
CLEAR CREEK	SM/MOD. STREAM	36 cfs
		cfs
		cfs
		cfs
		cfs

12. PRIMARY SENSITIVE ENVIRONMENTS: If you suspect any sensitive environment listed above has been exposed to hazardous substances from the site do not evaluate

Factor 13. List the Primary Sensitive Environments:

\_\_\_\_\_  
\_\_\_\_\_

13. SECONDARY SENSITIVE ENVIRONMENTS:

- A. For Secondary Sensitive Environments on surface water bodies with flows of 100 cfs or less, do not evaluate part B of this factor:

Flow	Environment Name	Environment Type
36 cfs	CLEAR CREEK	STATE DESIGNATED
cfs		CLEAN WATER ACT
cfs		
cfs		
cfs		

- B. If NO Secondary Sensitive Environments are located on surface water bodies with flows of 100 cfs or less,

N/A	
Low	
Low	

DRAFT

NOV 06 1990

16

Site Name: MobileWASTE  
Date: DECEMBER 19, 1991

## SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS

<b>Sensitive Environment</b>
Critical habitat for Federally designated endangered or threatened species Marine Sanctuary National Park Designated Federal Wilderness Area Ecologically important areas identified under the Coastal Zone Wilderness Act Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Act Critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lakes) National Monument National Seashore Recreation Area National Lakeshore Recreation Area
Habitat known to be used by Federally designated or proposed endangered or threatened species National Preserve National or State Wildlife Refuge Unit of Coastal Barrier Resources System Federal land designated for the protection of natural ecosystems Administratively Proposed Federal Wilderness Area Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay or estuary Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a river system Terrestrial areas utilized by large or dense aggregations of vertebrate animals (semi-aquatic foragers) for breeding National river reach designated as recreational
Habitat known to be used by State designated endangered or threatened species Habitat known to be used by a species under review as to its Federal endangered or threatened status Coastal Barrier (partially developed) Federally designated Scenic or Wild River
State land designated for wildlife or game management State designated Scenic or Wild River State designated Natural Area Particular areas, relatively small in size, important to maintenance of unique biotic communities State designated areas for the protection/maintenance of aquatic life under the Clean Water Act
Wetlands

SURFACE WATER  
WETLANDS FRONTAGE

<b>Total Length of Wetlands</b>
Less than 0.1 mile
0.1 to 1 mile
Greater than 1 to 2 miles
Greater than 2 to 3 miles
Greater than 3 to 4 miles
Greater than 4 to 8 miles
Greater than 8 to 12 miles
Greater than 12 to 16 miles
Greater than 16 to 20 miles
Greater than 20 miles

# DRAFT

NOV 06 1990

Site Name: *MOBILE WASTE CONTROL SITE 7*  
Date: *DECEMBER 19, 1991*

## SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY

## SUMMARY

WASTE CHARACTERISTICS	A	B
	<i>Suspected Release</i>	<i>No Suspected Release</i>
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics do not evaluate part B of this factor.	<i>MEDIUM</i>	
B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics		

## SURFACE WATER PATHWAY THREAT

Threat	<i>Likelihood of Release (LR) (from page 12)</i>	<i>Targets (T)</i>	<i>Pathway Waste Characteristics (WC)</i>	
Drinking Water	<i>High</i>	<i>Low</i>	<i>MEDIUM</i>	<i>Low</i>
Human Food Chain	<i>High</i>	<i>High</i>	<i>MEDIUM</i>	<i>MEDIUM</i>
Environmental	<i>High</i>	<i>Low</i>	<i>MEDIUM</i>	<i>Low</i>

**SURFACE WATER PATHWAY**  
(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

*MEDIUM*

# DRAFT NOV 1990

## SOIL EXPOSURE PATHWAY CRITERIA LIST

Site Name: *Mobile Waste Controls*  
Date: *DECEMBER 19, 1991*

18

This chart provides guidelines to assist you in hypothesizing the presence of a resident population. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize resident populations. This chart will record your professional judgment in evaluating this factor.

Use the resident population section to guide you through evaluation of some site and source conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of nearby people you feel may be considered part of a resident population. Record the responses for the resident population target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question.

SOIL EXPOSURE PATHWAY				
SUSPECTED CONTAMINATION	RESIDENT POPULATION			
	Y •	N •	UNKNOWN •	
<i>Surficial contamination is assumed.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there residences, schools, or day care facilities on or within 200 feet of areas of suspected contamination?
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are residences, schools, or day care facilities located on adjacent land previously owned or leased by the site owner/operator?
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there an overland migration route that might spread hazardous substances near residences, schools, or day care facilities?
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there any reports of adverse health effects from onsite or adjacent residents or students, exclusive of apparent drinking water or air contamination problems?
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does any offsite property warrant sampling?
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other criteria? _____
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RESIDENT POPULATION IDENTIFIED?

Summarize the rationale for resident population (attach an additional page if necessary):

*THREE APARTMENT COMPLEXES WERE CONSTRUCTED WITHIN 200 FT. OF THE SITE AND OVERLAND MIGRATION ROUTES SUPPLY WATER TO NEARBY LAKES. THE SITE IS ACCESSIBLE AS AN OPEN, MAINTAINED AREA WITH A BOAT STORAGE FACILITY AND RESIDENTIAL ROAD CONSTRUCTED OVER THE SITE. THE SITE HAS A HISTORY OF EXPOSED WASTE MATERIAL AND STRESSED (BARE) VEGETATION AREAS EMITTING STRONG CHEMICAL ODORS. (REFERENCE IS DOCUMENT 92 AND ATTACHMENT 5).*



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NOV 03 1990

SOIL EXPOSURE PATHWAY

Site Name: Mobil WASTE Controls Inc. 19  
Date: DECEMBER 19, 1991

Pathway Characteristics	
Do any people live on or within 200 ft of areas of suspected contamination?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Do any people attend school or day care on or within 200 ft of areas of suspected contamination?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the facility active? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, estimate the number of workers: _____

LIKELIHOOD OF EXPOSURE

A	B
Suspected Contamination	No Suspected Contamination

References:

1. SUSPECTED CONTAMINATION: Surficial contamination is assumed.

LE

RESIDENT POPULATION THREAT TARGETS

2. RESIDENT POPULATION: Determine the number of people occupying residences or attending school or day care on or within 200 feet of areas of suspected contamination.

718 people x 10 = 7,180

3. RESIDENT INDIVIDUAL: If you have identified any Resident Population

YES

4. WORKERS: total number of workers at the facility and nearby facilities with suspected contamination:

Number of Workers	
0	
1 to 100	
101 to 1,000	
> 1,000	

Low

5. TERRESTRIAL SENSITIVE ENVIRONMENTS: for each terrestrial sensitive environment that is located on an area of suspected contamination:

Terrestrial Sensitive Environment Type

N/A

6. RESOURCES:

WASTE CHARACTERISTICS

7. Assign the waste characteristics

WC - Medium

RESIDENT POPULATION THREAT

HIGH

NEARBY POPULATION THREAT

YES

SOIL EXPOSURE PATHWAY

Resident Population Threat + Nearby Population Threat

HIGH

18 &  
ATTACHMENT  
5

ATTACHMENT  
5

ATTACHMENT  
5

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NOV 06 1990

Site Name: Mobile WASTE 20  
Date: DECEMBER 19, 1991

SOIL EXPOSURE PATHWAY  
TERRESTRIAL SENSITIVE ENVIRONMENT

<i>Terrestrial Sensitive Environment</i>	<i>Assigned</i>
Terrestrial critical habitat for Federally designated endangered or threatened species	
National Park	
Designated Federal Wilderness Area	
National Monument	
Terrestrial habitat known to be used by Federally designated or proposed threatened or endangered species	
National Preserve (terrestrial)	
National or State terrestrial Wildlife Refuge	
Federal land designated for protection of natural ecosystems	
Administratively proposed Federal Wilderness Area	
Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	
Terrestrial habitat used by State designated endangered or threatened species	
Terrestrial habitat used by species under review for Federally designated endangered or threatened status	
State lands designated for wildlife or game management	
State designated Natural Areas	
Particular areas, relatively small in size, important to maintenance of unique biotic communities	

## AIR PATHWAY CRITERIA LIST

 Site Name: *Mobile Waste Controls*  
 Date: *December 19, 1991*

21

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release. This chart will record your professional judgment in evaluating this factor.

The "Suspected Release" section of the chart guides you through evaluation of some conditions to help hypothesize whether a release from the site is likely. For the Air Pathway, if a release is suspected, "Primary Targets" are any residents, workers, students, or sensitive environments within ¼ mile of the site.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

AIR PATHWAY		
SUSPECTED RELEASE		PRIMARY TARGETS
Y •	N •	UNKNOWN •
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have odors been reported?		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has a release of hazardous substances to the air been directly observed?		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are there any reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there any circumstantial evidence of an air release?		
<input type="checkbox"/>	<input type="checkbox"/>	
Other criteria? _____		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SUSPECTED RELEASE?		
<i>If you suspect a release to air, evaluate all populations and sensitive environments within ¼ mile (including those onsite) as Primary Targets.</i>		

Summarize the rationale for suspected release (attach an additional page if necessary):

*DURING A NOVEMBER 1991 COMPLAINT INVESTIGATION TWC DISTRICT STAFF REPORTED ODORS EMANATING FROM AN AREA OF STRESSED VEGETATION ON THE WESTERN SIDE OF THE SITE NEAR A GROUND WATER MONITORING WELL WITH SAMPLE RESULTS INDICATING CONCENTRATIONS OF HAZARDOUS SUBSTANCES (REF. 18 DOCUMENTS 84-87 AND 92; ATTACHMENTS 7 AND 8). OBSERVATIONS INDICATED ODOR INTENSITY INCREASES FROM THE BARE SOIL AREA DURING ELEVATED WATER TABLE PERIODS (ATTACHMENT 5).*

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NOV 06 1990

AIR PATHWAY

Site Name: MOBILE WASTE CONTROLS  
Date: DECEMBER 19, 1991

22

Pathway Characteristics	
Do you suspect a release	Yes <input type="checkbox"/> No <input type="checkbox"/>
Distance to the nearest individual:	_____ ft

LIKELIHOOD OF RELEASE	A	B	Reference
	Suspected Release	No Suspected Release	
1. SUSPECTED RELEASE: If you suspect a release to air, use only column A for this pathway.	YES		1, 18 ATTACHMENT 5
2. NO SUSPECTED RELEASE: If you do not suspect a release to air, use only column B for this pathway.			

TARGETS

3. PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a release of hazardous substances through the air $1,946 \text{ people} \times 10 = 19,460$	19,460		1, 15 1, 18				
4. SECONDARY TARGET POPULATION: Determine the number of people within the 4-mile target distance limit, 49,805	49,805		1, 15 1, 18				
5. NEAREST INDIVIDUAL: If you have identified any High	High		1, 15 1, 18				
6. PRIMARY SENSITIVE ENVIRONMENTS: <table border="1" data-bbox="363 1161 997 1293"> <thead> <tr> <th>Sensitive Environment Type</th> </tr> </thead> <tbody> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </tbody> </table>	Sensitive Environment Type				N/A		
Sensitive Environment Type							
7. SECONDARY SENSITIVE ENVIRONMENTS: N/A	N/A						
8. RESOURCES:							

WASTE CHARACTERISTICS

9. A. If you have identified any Primary Targets for the air pathway. do not evaluate part B of this factor.	Medium	
B. If you have NOT identified any Primary Targets for the air pathway,		

AIR PATHWAY

High



**SECONDARY AIR TARGET POPULATIONS**

<i>Distance from Site</i>	<i>Population</i>	<i>Nearest Individual</i>
Onsite	<u>0</u>	✓
>0 to 1/4 mile	<u>1,244</u>	
> 1/4 to 1/2 mile	<u>2,488</u>	
> 1/2 to 1 mile	<u>4,976</u>	
> 1 to 2 miles	<u>14,943</u>	
> 2 to 3 miles	<u>29,854</u>	
> 3 to 4 miles	<u>49,805</u>	

**WETLAND AREA**

<i>Wetland Area</i>
Less than 1 acre
1 to 50 acres
Greater than 50 to 100 acres
Greater than 100 to 150 acres
Greater than 150 to 200 acres
Greater than 200 to 300 acres
Greater than 300 to 400 acres
Greater than 400 to 500 acres
Greater than 500 acres

**AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS**

<i>Distance</i>	<i>Sensitive Environment Type</i>
Onsite	
0-1/4 mi	
1/4-1/2 mi	

GROUND WATER PATHWAY	High
SURFACE WATER PATHWAY	medium
SOIL EXPOSURE PATHWAY	High
AIR PATHWAY	High
	High

## RECOMMENDATION

ALL PATHWAYS ARE SUSPECTED RELEASES. HIGH DETERMINATION BASED ON PRESENCE OF SOURCE AND OBSERVED AND/OR DOCUMENTED RELEASES INTO EACH PATHWAY. RECOMMEND THE SITE PROCEED TO THE SSI STAGE IN FY '92.

## SUMMARY

	YES	NO
<p>1. Is there a high possibility of a threat to nearby drinking water wells by migration of hazardous substances in ground water?</p> <p>AREA LAKES INTERCEPT SURFICIAL GROUNDWATER AND LIE BETWEEN SOURCE AND DOMESTIC WELLS. SAMPLING WARRANTED TO DETERMINE THAT CONTAMINATION HAS NOT REACHED THESE WELLS.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>2. Are any of the following suspected to have been exposed to hazardous substances through surface water migration from the site?</p> <p>A. Drinking water intake</p> <p>B. Fishery</p> <p>C. Sensitive environment: wetland, critical habitat, others</p> <p>WINDMILL LAKES (LAKES TO WEST OF SITE). ADDITIONAL EFFORTS TO IDENTIFY ENDANGERED/THREATENED SPECIES IS WARRANTED.</p>	<p>=</p> <p><input checked="" type="checkbox"/></p> <p>=</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>
<p>3. Do people reside or attend school or day care on or within 200 ft of any area of suspected contamination?</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4. Are there public health concerns at this site that are not addressed by PA scoring considerations? If yes, explain:</p> <p>CITIZEN COMPLAINTS OF HIGH CANCER INCIDENCE IN ADJOINING NEIGHBORHOODS.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>